MMM		MMM	PPPPPPP	PPPP
MMM		MMM	PPPPPPP	PPPP
MMM		MMM	PPPPPPP	
MMMM	4M MI	MMMMM	PPP	PPP
HMMM	MM MI	MMMMM	PPP	PPP
MMMM		MMMMM	PPP	PPP
MMM	MMM	MMM	PPP	PPP
MMM	MMM	MMM	PPP	PPP
MMM	MMM	MMM	PPP	PPP
MMM		MMM	PPPPPPP	PPPP
MMM		MMM	PPPPPPPP	
MMM		MMM	PPPPPPPP	
MMM		MMM	PPP	
MMM		MMM	PPP	
MMM		MMM	PPP	
MMM		MMM	PPP	
MMM		MMM	PPP	
MMM		MMM	PPP	
MMM		MMM	PPP	
MMM		MMM	PPP	
242424		869696	DDD	

MM MM MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	00000000 00000000000000000000000000000	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	######################################	MM MMMM MMMM MM MP MM MM MM MM MM MM MM MM MM
		\$				

MP

Page (1) MP

.TITLE MPCLRPFM .IDENT 'V04-000'

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Facility: Multi-processor performance measurement tool to re-init data cells

Abstract: This module resets all performance accumulators to zero.

Environment: MODE=Kernel

Author: Kathleen D. Morse, Creation date: 27-Aug-1981

Modified by:

41234567

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V03-002 KDM0032 22-Nov-1982 Kathleen D. Morse Remove wait time before secondary reschedule histogram. Add secondary executed kernel system service histogram.

Include files:

F 14

MP

```
58
                                                                        $IPLDEF
                                                                        SPCBDEF
                                                                        SPHDDEF
                                000 0000
004 0000
008 0000
010 0000
0000
0000
0000
                      00000000
00000004
00000008
00000010
                                                         HST_L_CELLCOUNT = 0
HST_L_CELLWIDTH = 4
HST_L_OVRFLOW = 8
HST_L_FIRSTCELL = 16
                                                   .PSECT RO_DATA LONG, NOWRT, NOEXE
                                00000000
                                                                        .PSECT CODE BYTE, NOWRT, EXE
                                                          CLRPFM::
                                                                       .ENABL LSB
                                                                       WORD O
SCMKRNL S
SEXIT_S RO
                             0000
                                                                                                   B*CLRDATA
                                                            CLRDATA - This routine goes into kernel mode and clears the performance
                                                            data.
                                       0017
0017
0019
0010
001E
0025
                                                          CLRDATA::
                             007C
                                                                                     ^M<R2,R3,R4,R5,R6>
#IPL$_TIMER
                                                                         WORD
                                                                        SETIPL
                                                                                                                              :Synchronize on primary processor
                                D4
D0
12
31
                                                                       CLRL
                                                                                                                                            ;Assume error code exit
        00000000 GF
                                                                                     G^EXE$GL_MP,R6
                                                                       MOVL
                                                                                                                                            ;Get adr of loaded MP code
                                                                       BNEQ
                                                                                                                                            :Br if MP code is loaded
                    00F4
                                                                       BRW
                                                                                     ERR_EXIT
                                                                                                                                            :Br if MP code not loaded
                                9A
D4
F4
                                                         5$:
10$:
                                                                       MOVZBL
                                                                                                                              One counter for K.E.S.U.I.C and null
           0000'C641
F8 51
                                                                                     MPSSAL_CPUTIME(R6)[R1]
R1,10$
                                                                       CLRL
                                                                        SOBGEQ
                                                                                    #5,R1
G^PMS$GL_KERNEL[R1]
R1,20$
                                                                        MOVZBL
    00000000 GF41
F6 51
                                04
F4
                                                         205:
                                                                       CLRL
       00000000°GF
50 6C A0
38 A0
                                9E
                                                                                     G^SCH$GL_NULLPCB,R0
PCB$L_PHD(R0),R0
PHD$L_CPUTIM(R0)
50
                                                                        MOVAB
                                       0049
0049
0050
0050
0054
0058
0056
0066
0066
0070
0070
0075
                                                                       MOVL
                                04
                                                                        CLRL
                                                                                    PFM$L_CNT_CTXSW(R6)
PFM$L_CNT_RESCH(R6)
PFM$L_CNT_SCHDS(R6)
PFM$L_CNT_INVAL(R6)
PFM$L_CNT_IWAIT(R6)
PFM$L_CNT_EXCHG(R6)
PFM$L_CNT_ASTSC(R6)
PFM$L_CNT_NWAIT(R6)
               0000.C9
0000.C9
0000.C9
                                04 04 04
                                                                       CLRL
CLRL
CLRL
               0000.09
                                                                        CLRL
               0000.C9
0000.C9
0000.C9
                                D4
D4
D4
                                                                       CLRL
                                                                        CLRL
                                04
                                                                        CLRL
                                                                                     PFMSA_HIST_TIME(R6),R0
HST_L_CELLCOUNT(R0),#4,R1
#12,RT
               0000'66
                                                                        MOVAB
                                                                        MULL3
                                                                        ADDL
                                                                                                                                            :Add in overflow cell
```

C	4	1
0		4

MPCLRPFM V04-000								G 14 16-SEP-1984 02:13:37 5-SEP-1984 02:06:07	VAX/VMS Macro V04-00 Page 3 (1)
60	51	00	50 08	50	007C 11 007F 11	5	ADDL MOVC5	#HST_L_OVRFLOW.RO #0,(ROT,#0,R1,(RO)	;Clear performance meas data
60	51	50 51 00	0000°C6 04 60 51 06 50 08 60 00	9E C5 C0 C0 2C	0085 11 008A 11 008E 12 0091 12 0094 12	9	MOVAB MULL3 ADDL ADDL MOVC5	PFM\$A_HIST_SRV(R6),R0 HST_L_CELLCOUNT(R0),#4,R1 #12_RT #HST_L_OVRFLOW,R0 #0,(R0),#0,R1,(R0)	:Add in overflow cell :Clear performance meas data
60	51	50 51	0000°C6 04 60 51 06 50 08 60 00	9E C5 C0 C0	0094 12 009A 12 009A 12 009F 12 00A3 12 00A6 12 00A9 12	5 6 7 8	MOVAB MULL3 ADDL ADDL MOVC5	PFM\$A_HIST_CTX(R6),R0 HST_L_CELLCOUNT(R0),#4,R1 #12,RT #HST_L_OVRFLOW,R0 #0,(R0),#0,R1,(R0)	;Add in overflow cell ;Clear performance meas data
60	51	50 51	0000°C6 04 60 51 00 50 08 60 00	9E	00AF 12 00AF 13 00B4 13 00B8 13 00BB 13 00BE 13	9011234	MOVAB MULL3 ADDL ADDL MOVC5	PFM\$A_HIST_PGFL(R6),R0 HST_L_CELLCOUNT(R0),#4,R1 #12,RT #HST_L_OVRFLOW,R0 #0,(R0),#0,R1,(R0)	;Add in overflow cell ;Clear performance meas data
60	51	50 51 00	0000°C6 04 60 51 00 50 08 60 00	9E C5 C0	00C4 13 00C4 13 00C9 13 00CD 13 00D0 13	5 6 7 8 9	MOVAB MULL3 ADDL ADDL MOVC5	PFM\$A_HIST_CHMK(R6),R0 HST_L_CELLCOUNT(R0),#4,R1 #12_RT #HST_L_OVRFLOW,R0 #0,(R0),#0,R1,(R0)	:Add in overflow cell :Clear performance meas data
60	51	50 51 00	0000°C6 04 60 51 00 50 08 60 00) C5	00D9 14 00D9 14 00DE 14 00E2 14 00E5 14 00E8 14 00EE 14	5	MOVAB MULL3 ADDL ADDL MOVC5	PFM\$A_HIST_OTHR(R6),R0 HST_L_CELLCOUNT(R0),#4,R1 #12.RT #HST_L_OVRFLOW.R0 #0,(R0),#0,R1,(R0)	;Add in overflow cell ;Clear performance meas data
60	51	50 51 00	0000°C6 04 60 51 00 50 C5 60 00	9E C5 C0 C0	00EE 14	9	MOVAB MULL3 ADDL ADDL MOVC5	PFM\$A_HIST_SSRV(R6),R0 HST_L_CELLCOUNT(R0),#4,R1 #12,RT #HST_L_OVRFLOW,R0 #0,(R0),#0,R1,(R0)	:Add in overflow cells :Clear performance meas data
60	51	50 51 00	0000°C6 04 60 51 00 50 08 60 00	9E C5 C0 C0	00F7 00FA 00FD 15 0103 15 0108 15 010C 010F 0112 15 0118 16 011B	66788	MOVAB MULL3 ADDL ADDL MOVC5	PFM\$A_HIST_KSRV(R6),R0 HST_L_CELLCOUNT(R0),#4,R1 #12,RT #HST_L_OVRFLOW,R0 #0,(R0),#0,R1,(R0)	:Add in overflow cells :Clear performance meas data
			50 01		0118 15 0118 16 0118 16 011E 16 011F 16 011F 16 011F 16		SETIPL MOVZBL T: RET	#0 #1,R0 ;Reset	
					011F 16	7	.END	CLRPFM	

MPCLRPFM Symbol table	H 14 16-SEP-1984 02:13:37 VAX/VMS Macro V04-00 Page 4 5-SEP-1984 02:06:07 [MP.SRC]MPCLRPFM.MAR;1 (1)
CLRDATA CLRPFM ERR EXIT EXESGL MP HST_L_CELLCOUNT HST_L_CELLWIDTH HST_L_FIRSTCELL HST_L_OVRFLOW IPLS_TIMER	00000000 RG 03 0000011E R 03 = 00000000 = 00000004 = 00000010 = 00000008
IPLS TIMER MPSSAL CPUTIME	= 00000008 ******* X 03
MPSSAL CPUTIME PCBSL PHD PFMSA HIST CHMK PFMSA HIST CTX PFMSA HIST CTX PFMSA HIST OTHR PFMSA HIST SRV PFMSA HIST SRV PFMSA HIST SRV PFMSA HIST TIME PFMSL CNT ASTSC PFMSL CNT CTXSW PFMSL CNT TXSW PFMSL CNT INVAL PFMSL CNT INVAL PFMSL CNT RESCH PFMSL CNT R	= 000006C ******** X 03
	! Psect synopsis!
PSECT name	Allocation PSECT No. Attributes
ABS . \$ABS\$ RO_DATA CODE	00000000 (0.) 00 (0.) NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE 00000000 (0.) 01 (1.) NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE 00000000 (0.) 02 (2.) NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG 0000011F (287.) 03 (3.) NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE
	! Performance indicators !
Phase Initialization Command processing Pass 1 Symbol table sort Pass 2 Symbol table output	Page faults

Page

I 14

MPCLRPFM VAX-11 Macro Run Statistics 16-SEP-1984 02:13:37 VAX/VMS Macro V04-00 5-SEP-1984 02:06:07 [MP.SRC]MPCLRPFM.MAR;1

Psect synopsis output 2 00:00:00.03 00:00:00.04 Cross-reference output 0 00:00:00.00 00:00:00.00 Assembler run totals 372 00:00:05.30 00:00:19.68

The working set limit was 1050 pages.
16658 bytes (33 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 293 non-local and 3 local symbols.
167 source lines were read in Pass 1, producing 16 object records in Pass 2.
14 pages of virtual memory were used to define 13 macros.

! Macro library statistics !

Macro Library name

Macros defined

\$255\$DUA28:[MP.OBJ]MP.MLB;1
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

10

355 GETS were required to define 10 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:MPCLRPFM/OBJ=OBJ\$:MPCLRPFM MSRC\$:MPCLRPFM/UPDATE=(ENH\$:MPCLRPFM)+EXECML\$/LIB+LIB\$:MP.MLB/LIB

0247 AH-BT13A-SE

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